SCIENTIFIC DATA SYSTEMS, INC.

Warrior Software Version 8.0 – Standard Cased Hole

Computer Installation of

Warrior 8.0 Software

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WARRIOR SOFTWARE VERSION 8.0 STANDARD CASED HOLE

Computer Installation of Warrior 8.0 Software

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Introduction

The purpose of this article is to aid the first time user in the set up and installation of Warrior 8.0 software, creating useful shortcuts to be placed on the desktop, loading drivers for Warrior hardware, and installing printers to be used by Warrior 8.0 Software. Refer to the Warrior Field Operations Manual for further information.

Warrior software Release 8.0 is a third-generation 64 / 32-bit program. The Warrior software is a mature logging environment that stresses ease of use, wide versatility, with a true multi-tasking environment. The Warrior software runs on Windows Operating Systems (Windows 7). The Warrior 8.0 software supports Unicode so that the program windows could show text in the users own language. Unlike previous versions of Warrior Software, the standard release no longer includes a demonstration mode. Demonstration software is available in a separate release.

Warrior Software Installation 1

Distribution Media 1.1

The Warrior Data Acquisition Software version 8.0 (XXXXXX) or latest release, is distributed on one DVD. There are currently plans to install a USB drive in the panel in the near future that will contain the distribution software and required licenses for Warrior 8.0 Software. The software is also downloadable in the form of a single executable file from the web site http://www.warriorsystem.com/ under **DOWNLOADS.** This file should be saved to a temporary directory and then run to expand the software into an installation folder. It also starts the installation process.

New Installation Warrior Software from DVD 1.2

Previous to the installation of the Warrior software we recommend to update the Windows operating system through the Internet connection.



Restart the computer and turn OFF the Interface Panel Power supply and disconnect the USB cable to the computer. Do NOT connect the Warrior Interface Panel to the computer via a USB cable before installing the Warrior 8.0 Software. This could cause problems in the later installation of hardware drivers.

The Warrior Data Acquisition Software DVDs are set up to be self loading on most Windows Operating System computers. The Operating system must be any version of Windows 7 32-bit or 64 bit. After a fresh restart of the computer, open the CD tray, insert the Warrior Software DVD, and close the tray. The Windows Operating System will look for an autorun.inf file on the CD to start the loading procedure. The interactive menu shown in figure 1.2.2 should appear. Be sure that the CD player has stopped operating before assuming that the autorun file did not execute. There are several reasons that the autorun file may not execute. The two most like causes are the operating system may have autorun capability shut off or existing software on the computer may not allow software to run directly from the CD. Solutions for these problems will be discussed later.

🗎 AutoPlay	X
DVD RW Drive (D:) Warr	ior OH
Always do this for software and gam	nes:
Install or run program from your me	dia ———
Run CD_Start.exe Published by Klaus Schwenk	
General options	
Open folder to view files using Windows Explorer	
View more AutoPlay options in Control	<u>l Panel</u>

Fig. 1.2.1 CD Start Detected



FIG: 1.2.2 Interactive Menu.

From the Interactive Menu, click on the Warrior 8 software installation that you wish to perform. The software will then do a preload to prepare for installation.



Fig. 1.2.3

The Install Shield Wizard will begin. Click on the [Next] button.



Fig. 1.2.4 InstallShield Wizard

The folder for installing system files is then shown. The [Browse] button can be used to select an alternate folder in which to install the files. It is highly recommended that the default folder be used. Click the **[Next>]** button to continue.

Warrior Logging System - Standard Open/Cased - InstallShield Wizard	x
Choose Destination Location Select folder where setup will install files.	
Setup will install Warrior Logging System - Standard Open/Cased in the following folder.	
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.	
Destination Folder C:\Program Files\Scientific Data Systems\Warrior\ Browse]
InstallShield <u>Rext > Cance</u>	

Fig 1.2.5 Program file folder destination

A summary will be shown of the installation options. Click the **[Next>]** Button to Begin installation.

Start Copying Files		
Review settings before copying fil	es.	
Install to C:\Program Files\Scientil	fic Data Systems\Warrior\	
Current Settings:		
Installing Warrior Logging System	- Standard Open/Cased ifid Data Sustems/Warrior/	*
molai lo c. il rogram nico locichi	ing bata systems thanking	
		Ŧ
4		
lShield		-

FIG: 1.2.6 Setup Ready to install

The Install Shield wizard will now begin the process of installing the Warrior Software onto the computer.

Warrior Logging System - InstallShield Wizard		x
Setup Status		4
Warrior Logging System is configuring your new software installation.		
Copying files		
C:\\Backup\Config\2.28.2012.10.07.56\Sondex_STIPCH32USB.wcf		_
InstallShield		
	Cano	cel

FIG: 1.2.7 Decompress and install the Warrior files

Allow the software to decompress, extract files, and create icons until it is finished.

Warrior Logging System - InstallShield Wizard				
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Warrior Logging System. Click Finish to exit the wizard.			
	< <u>B</u> ack Finish Cancel			

FIG: 1.2.8 Setup has finished.

Click the [Finish] button.



Fig. 1.2.9 Restart computer.

Allow the computer to reboot and finish the installation procedure Remove any disk from their drives, and click **[Finish]** to complete setup.

As the computer reboots, before windows starts, the final installation of the Warrior software will begin. There will be changes made to the configuration files that indicate what version of software has been installed. The Hardlock driver for the software key is installed. This may take some time, allow it to complete the Hardlock driver installation.



Fig. 1.2.10

As the SDS USB Devices Drivers are installed, you will be asked to accept the license agreement. Click **[Yes]** to continue.



Fig. 1.2.11

The interface panel must be turned off and disconnected from the computer before the devices drivers are installed. Click the **[Next**] button to continue.

Scientific Data Systems De	vice Driver Installer
	Welcome to the Scientific Data Systems Device Driver Installer This wizard will install drivers for SDS USB devices. Make sure the devices are powered off before proceeding. After installation, power the devices back on to complete the process.
	< <u>B</u> ack <u>N</u> ext > Cancel

Fig. 1.2.12

You will get a window that shows that the devices drivers are installing. Wait for the device driver installation to be completed.

Scientific Data Systems Device Driver Installer
Installing the drivers for Scientific Data Systems USB devices
Please wait while the drivers install. This may take some time to complete.
< <u>B</u> ack <u>N</u> ext> Cancel

Fig. 1.2.13

When the devices drivers have finished installing, you will be show the confirmation window. Click the **[Finish]** button to proceed. You may notice a black window momentarily flash on the screen as the Warrior Event Logger is installed and started.



Fig. 1.2.14

You should now attach the USB cable from the computer to the Interface Panel and then turn on the panel. The drivers for the devices should load into Windows and be ready to use in a few moments.

1.2.1 Warrior Drivers not installed

Some computers may be set up so that occasionally the driver files will not get installed. You will usually get some cryptic message from windows about a requested operation requiring elevation.



Fig. 1.2.15

To load the Warrior drivers use Windows Explorer and locate the

"C:\Program Files\Scientific Data Systems\Warrior\Drivers"

folder. Locate either the SDSUSB32.exe or SDSUSB64.exe file for you appropriate system type. Right click on the file and choose the "Run as Administrator" option.

									X
O v → Computer → OS (C:) → Program Files → S	Scientific Data Systems 🕨 Wa	rrior 🕨 Drivers				• 4 ₇	Search Dri	vers	٩
<u> </u>									
Organize 🔻 Include in library 👻 Share with 💌 B	urn New folder								0
Roxio Scientific Data Systems Scientific Data Systems Warrior P Application Files Bin Drivers Lang Script Sim Uninstall Information 7 items	Name Image: haspdinst.exe Sdsdevs.log Sdsdevs32.cpl Sdsdevs64.cpl SDSUS832.exe SDSUS864.exe SSUS864.exe Ssetup_wdbk_64.exe		Date modified 12/14/2011 10:31 4/30/2012 8:28 AM 1/12/2012 5:24 PM 1/12/2012 5:24 PM 10/26/2011 4:03 PM 3/20/2012 2:08 PM 4/30/2012 8:27 AM	Type Application Text Document Control panel item Control panel item Application Application Application	Size 15,939 KB 244 KB 170 KB 189 KB 527 KB 603 KB 3,895 KB				
Fig. 1.2.16 Fig. 1.2.16 Sdadewd2.cpl Sdsdevd4.cpl SDSUS882.com SDSUS882.com SDSUS882.com SDSUS882.com Pable/Disable Digital Signar Paulos/Disable Digital Signar Run as different user Troubleshoot competibility Scan with Microsoft Security	1/12/2012 5:24 PM 1/12/2012 5:24 PM 10/25/2011 4:03 PM 3/20/2012 2:00 PM ture icons	Control per Control per Application Application Application							

1.3 Warrior DVD will not self start or autorun

Some computers may have the autorun capability turned of so that CDs will not automatically start loading software. Run the file CD-Start.exe from the DVD or the attached USB drive.

1.4 Warrior Shortcut Icon

Perhaps the easiest way to set up a short cut to a program group is through the use of Windows program Selection. Click on the Windows Start Button. Next, click on All Programs. Find the Warrior 8.0 program group and right click on that. Finally, right click on the Warrior program group and select Send to -> Desktop (create shortcut)





It is recommended that the Warrior group programs be placed as a toolbar on the Windows toolbar. It is necessary to first have placed a shortcut to the Warrior program group on the desktop as done in the preceding paragraph. To add the Warrior toolbar, right click on a blank area of the Windows Toolbar. Select Toolbars >> then select New Toolbar . . .



Fig. 1.4.2 Select Toolbar Folder

The window New Toolbar – Chose a Folder window will open. Click on Desktop to view the Desktop folders. Click on Warrior 8.0 folder then click the [Select Folder button]. You should now have a Warrior 8.0 toolbar for quick access to Warrior programs.

1.5 Loading Drivers for Warrior Hardware

Warning! Do NOT connect the Warrior Interface Panel to the computer before installing the Warrior 8.0 Software. This could cause problems in the later installation of hardware drivers.

Loading the drivers for Warrior Hardware is normally a straightforward procedure if done in the proper sequence as the Windows Hardware Wizard finds the new hardware.

After the Warrior 8.0 Software has been installed on the computer, connect the USB cable to the computer and to the Warrior Interface Panel and turn on the interface panel. You will see Windows has found new device. Wait until you see the message that your device is ready to use.

1.6 Key Software Authorization Setup

Before access is allowed to the Warrior 8.0 software, the key authorization codes must be entered through the Warrior Control Panel. From the Warrior group box, select Control Panel.

🗃 Acquisition
Control Panel
륁 Database Utilities
📰 Event Log Viewer
📆 Format Editor
📕 Heading Editor
🌃 Interactive Plot
🎓 Merge
🛃 🖥 Perf Job Planner
😹 Plot Job Editor
🛜 Recalculation
🔊 Shortcut to Warrior Config
🛃 Shortcut to Warrior Data
🚟 Simulator
🗃 Tools Editor
🚼 Warrior Backup

FIG: 1.6.1 Select Control Panel

eneral Acquisition Plot Hot Keys/Si	hortcuts	/Tension
Show depth as • Feet • Meters	Show data units as	sh c defined
Use language		
Warrior data directory		Browse
Store realtime backups to F:\		Browse
 No realtime backups Offer to make copy after each pass C Automatically make copy after each pass 	ass	
Version Warrior Logging System version 12.4.280 - 2012.4.27.1	01. Warrior Database API (F	210V0 unicode)
	OK	Canad

FIG: 1.6.2 Warrior Control Panel

Click on the Licenses tab.

Warrior Control Panel		? X
General Acquisition Other H	ot Keys Licenses Depth/Tension	
Key Serial #:	U4026	
License for:	Warrior Desktop	
Code:	8881336A2BF18989 (P010V000	Save
	Import from File	
	ОК	Cancel

FIG: 1.6.3 Control Panel Licenses

Unlike the older Warrior software that required a single access code, Warrior 8.0 software requires multiple access codes for the different logging modules that get installed. Although the codes can be manually entered by typing the code for each individual license in the code box, the software can now import the codes by reading a text file and merging them into any existing codes. Click on the [Import from file] button to browse for the import file licenses.ini. With new systems, this file will be located on a USB drive installed in the Scientific Data Systems Interface panel.

Computer 🖡 Removable I	Disk (G	:) •		▼ * ₇	Search Re	movable Di	sk (G:)	
Organize 🔻 New folder						•		0
☆ Favorites	-	Name	Date modified	Туре	S	ize		
🧮 Desktop		ASPI Drivers For DAT Tapes	2/20/2012 3:57 PM	File folder				
鷆 Downloads		Direchure	2/20/2012 3:57 PM	File folder				
💝 Dropbox	-	DOC DOC	2/20/2012 3:57 PM	File folder				
🕮 Recent Places	=	Modifications	2/20/2012 3:57 PM	File folder				
		PdfFiles	2/20/2012 3:58 PM	File folder				
词 Libraries		PROG	2/20/2012 3:58 PM	File folder				
Documents		RESOURCE	2/20/2012 3:58 PM	File folder				
👌 Music		퉬 ScanDisk	2/20/2012 4:11 PM	File folder				
E Pictures		🐌 Videos	2/20/2012 3:58 PM	File folder				
Videos		Warrior 7 Software	2/20/2012 3:58 PM	File folder				
		퉬 Warrior 8 Software 32 Bit	2/20/2012 4:01 PM	File folder				
🖳 Computer		퉬 Warrior 8 Software 64 Bit	2/20/2012 4:02 PM	File folder				
🚢 OS (C:)		Warrior Device Drivers	2/20/2012 3:58 PM	File folder				
髉 DVD RW Drive (D:) Warrior OH		Warrior Engineering Bulletins	2/20/2012 3:58 PM	File folder				
👝 DATA (E:)		퉬 Warrior Manuals	2/20/2012 3:58 PM	File folder				
👝 Old Drive (F:)		Windows Printer Drivers	2/20/2012 3:58 PM	File folder				
💼 Removable Disk (G:)		📄 Hot Hole 2-23-2012.conf.wbu	2/24/2012 12:13 AM	WBU File		8,970 KB		
🎉 ASPI Drivers For DAT Tapes		🗿 Licenses.ini	2/21/2012 9:43 AM	Configuratio	n sett	1 KB		
Rechure	*				<i>y</i>			
File name: Licenses.ini	i			-	Browse for	Warrior bad	kup file	1-

Fig. 1.6.4 Browse for Licenses.ini (normally located on USB drive in interface panel)

The Control Panel will indicate whether the codes were properly imported by showing Import: OK. You can now look at each of the different License in the License for: dropdown list. The software will show the code for the license type shown.

Warrior Control Panel		? ×
General Acquisition Other	Hot Keys Licenses Depth/Tension	
Key Serial #:	U4026	
License for:	Warrior Desktop	
Code:	B881336A2BF18989 (P010V000	Save
	Import from File	
	ОК	Cancel

Fig. 1.6.5

1.7 Restoring Warrior 7.0 Files to Warrior 8.0

Warrior 7.0 stored most of the text files that it used in an ANSI encoding format. Warrior 8.0 uses UNICODE encoding for the text files, thus the files are usually incompatible from Warrior 7.0 to Warrior 8.0 and cannot be directly copied. To aid in the conversion from Warrior 7.0 to Warrior 8.0 there is a utility that does a configuration backup in Warrior 7.0 that can be used to restore the files into Warrior 8.0.

1.7.1 Backing up Warrior 7.0 Files

Insert the Warrior 8.0 distribution media into the computer that is running Warrior 7.0. From the Warrior 8.0 distribution media, locate the folder **Warrior 7 Backup for Warrior 8**. In this folder is the program **setup_w7bk_2012_03_12001.exe** or similarly named program. Double click on the file to run the program.

Name	Date modified	Туре	Size	
ASPI Drivers For DAT Tapes	3/23/2012 11:12 AM	File folder		
🧾 autorun.inf	2/23/2012 1:23 PM	File folder		
📕 Brochure	3/23/2012 11:12 AM	File folder		
JDOC DOC	3/23/2012 11:12 AM	File folder		
Modifications	3/23/2012 11:12 AM	File folder		
🕌 PdfFiles	3/23/2012 11:16 AM	File folder		
PROG	3/23/2012 11:18 AM	File folder		
RESOURCE	3/23/2012 11:21 AM	File folder		
퉬 Videos	3/23/2012 11:21 AM	File folder		
Warrior 7 Backup for Warrior 8	3/23/2012 11:21 AM	File folder		
📕 Warrior 7 Software	3/23/2012 11:21 AM	File folder		
길 Warrior 8 Software 32 Bit	3/23/2012 11:21 AM	File folder		
길 Warrior 8 Software 64 Bit	3/23/2012 11:22 AM	File folder		
Warrior Engineering Bulletins	3/23/2012 11:22 AM	File folder		
📙 Warrior Manuals	3/23/2012 11:24 AM	File folder		
길 Windows Printer Drivers	3/23/2012 11:25 AM	File folder		
Start.txt	10/1/2008 2:52 PM	Text Document	1 KB	

Fig 1.7.1 Warrior 8.0 Distribution media folders

Name	Date modified	Туре
setup_w7bk_2012_03_12001.exe	3/12/2012 5:45 PM	Application

Fig. 1.7.2 setup_w7bk program

When running the Setup_w7bk program you may be asked to allow the program to make changes to the computer. Click **[Yes]** to continue.



Fig. 1.7.3 Warrior 7 Backup Utility

You will be given the option of where the backup program will be stored. Click the **[Browse...]** button to choose a new location other than the default or click **[Next>]** to continue.

Warrior Logging System - Warrior 7 Backup Utility - InstallShield Wizard
Choose Destination Location Select folder where setup will install files.
Setup will install Warrior Logging System - Warrior 7 Backup Utility in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\\Scientific Data Systems\Warrior7Backup\
InstallShield
< <u>B</u> ack Next > Cancel

Fig. 1.7.4 Selecting destination folder

The Ready to Install the Program window will come up. Click **[Install]** to continue installation.



Fig. 1.7.5 Ready to install the program

The Setup Status window will show the progress of the installation.

Warrior Logging System - Warrior 7 Backup Utility - InstallShield Wizard	×
Setup Status	S
The InstallShield Wizard is installing Warrior Logging System - Warrior 7 Backup Uti	lity
InstallShield	Cancel

Fig. 1.7.6 Setup Status

The InstallShield Wizard complete window will come up. Click the [Finish] button to close the window.

Warrior Logging System - Warr	ior 7 Backup Utility - InstallShield Wizard
	InstallShield Wizard Complete The InstallShield Wizard has successfully installed Warrior Logging System - Warrior 7 Backup Utility. Click Finish to exit the wizard.
	< <u>B</u> ack Finish Cancel

Fig. 1.7.7 Installation Complete

The Installation process of setup_w7bk will place a new icon on the desktop of the Warrior 7.0 computer.



Fig. 1.7.8 Warrior 7 Backup for Warrior 8 ICON

Double click this Icon to run Warrior 7 backup program. The default location for the file is C:\Warrior\Data. The [Browse] button can be used to change the location where the file will be saved and the file name. It is recommended that the file be placed on a removable media such as a USB drive or writeable CD. Click on the **[Begin]** button to start the backup.

Васки	2	
Options		
Back up to	C:\Warrior\Data\war7cfg120323.conf.wbu	Browse
Comment	Warrior 7 Backup	
Advanced >>		
pelo press ZE15		
icih' hiese zi, i s		

Fig. 1.7.9 Warrior Backup from Version 7

When the file has been created, the program will show that the backup is complete.

Back up to	C:\Warrior\Data\war7cfg120323.conf.wbu	Browse
Comment	Warrior 7 Backup	
Advanced >>	1	
	_	

Fig. 1.7.10 Warrior 7 backup complete

1.7.2 Restoring Warrior 7 Files to Warrior 8

To restore the Warrior 7 files onto the Warrior 8 computer, on the Warrior 8 computer open the Warrior Backup program and click on the Restore tab. Click on the **[Browse]** button and locate the file that was created on the Warrior 7 computer.

Backup	<u>R</u> estore	Restore Critical Files
Options		
Restore from		Browse
Comment		
Advanced >>		
lp, press <⊢1>		

Fig. 1.7.11 Warrior 8 Backup – Restore

🕞 🗢 🕨 Computer 🕨 Removable Disk	(G:) ►		- 4 ∳	Search Removable Disk	c (G:)	
)rganize 🔻 New folder				• ==		(
*	Name	Date modified	Туре	Size		
libraries	SDSMENU USB	3/23/2012 11:24 AM	File folder			
Documents	war7cfg120323.conf.wbu	3/23/2012 11:52 AM	WBU File	11,128 KB		
J Music						
Pictures						
Videos						
E Computer						
DVD RW Drive (D:) WARRIOR 8						
DATA (F:)						
Old Drive (F:)						
Removable Disk (G:)						
🖵 apps (\\192.168.0.95) (M:)						
🖵 customer (\\192.168.0.90) (W:)						
TOMS FILES (\\192.168.0.90\sds office\						
🖵 Clients (\\192.168.0.90\Customer) (Y:)						
-J						
O literate						
2 items						
2 items						
2 items File <u>n</u> ame: war7cfg120323.	conf.wbu		•	Warrior Backup (*.conf.	vbu)	

Fig. 1.7.12 Select the conf.wbu file

After you click the [Open] button, you will momentarily see that the software is processing the Warrior 7 files. When the processing is complete, click the **[Begin]** button to transfer the files. You will be asked if you want to restore the Warrior 7 configuration files. Click **[Yes]** to continue.

Backup	Restore	Restore Critical Files
Options		
Restore from	6:\war7cfg120323.conf.wbu	Browse
Comment		
Advanced >>		
cessing		

Fig. 1.7.13 Processing Warrior 7 files.



Fig 1.7.14 Verify Restore of Warrior 7 configuration

After the restoration is finished, you will be shown a text file with the results of the restoration process. You can review the results and close the file when done. The Warrior 7 files should now be transferred to the Warrior 8 computer and be ready to use.

🧾 2012.03.23.15.59.55.RestoreResults.txt - Notepad 📃 💷 💻 🏧	
<u>F</u> ile <u>E</u> dit F <u>o</u> rmat <u>V</u> iew <u>H</u> elp	
Restore Results	-
	=
*** SUCCESSFUL ITEMS ***	
Files:	
ADMYR.LGO : OK	
baker.lgo : OK SandBorosity lgo : OK	
TSO.LGO : OK	
wesc5.lgo : OK	
western.igo : OK western1.igo : OK	
WWILogo.lgo : OK	
Annotate.ini : OK	
CBGTEL.INI : OK	
cbgtelold.ini : OK	
Datalink.ini : OK Explobis ini : OK	
Export.ini : OK	
gates.ini : OK	
LISTOWAR.INI : OK	
MultiArm.ini : OK	
ohinterp.ini : OK ProbeConfig ini : OK	
services.ini : OK	
SKey.ini : OK	
Sondex_Annotate.Ini : OK Sondex Las.ini : OK	
Sondex_Printers32.ini : OK	
Sondex_STDCH32USB_Warrior.ini : OK	
Sondex_STIPCH32USB_Warrior.ini : OK	
Sondex_STIP_CH_Warrior.ini : OK	
Sondex_1001edit.ini : OK Sondex_Units.ini : OK	
STDCH32USB_Warrior.ini : OK	
STDOC32USB_warrior.ini : OK	
STDSLABS2036_gales.ini : OK STDSLAB32USB_services.ini : OK	
STDSLAB32USB_tools.ini : OK	
STDSLAB32USB_warrior.ini : OK	
Ultrawire.ini : OK	
units.ini : OK	
WarAlarm.ini : OK	
warconv.ini : OK	
WarGauge.1n1 : OK warodbc ini : OK	
Data.lst : OK	
Example.wif : OK	
FILELWIT : UK	-

Fig. 1.7.15 Restore results

2 Printer Installations

To be able to produce a hardcopy of your data from the Warrior software, a Windows printer must first be installed. The Warrior software includes the capability to print / plot to common plotters while logging but the software uses the Windows spooling to buffer the plotter output. Other plotters may be used to plot logs through Windows after data recording as stopped.

2.1 Windows Printer Installation.

To facilitate this operation a USB Port has been assign on the Interface Panel (rear Plate) and marker "Plotter". It is recommended to use this USB port for your printer connection. With the printer turned off, plug in the USB cable or USB to Centronix Printer Adapter cable into the USB port. Make sure that the USB cable from the computer to the Interface Panel is properly connected. Turn the Printer On.

Windows will often install printer driver automatically. To see if Windows has installed the printer, click on the Windows start button and then click on the Device and Printers selection.



Fig. 2.1.1 Windows Start Button and Devices and Printers selection

Look in the Printers and Faxes section and see if the printer that you have connect has been automatically installed. If it hasn't been, then Windows drivers will have to be installed manually. At this point the manufacturer's drivers must be available. Drivers for black and white plotters normally supplied by Scientific Data Systems, such as Printrex and Isys, are on the Warrior installation CD.

Place the CD or other media containing the device drivers in the computer so that they are available when required during the printer installation. Click on Add a Printer in the Windows Devices and Printers window.

💭 🖉 🐜 > Control Panel > Hardware and Sound > Devices and Printers >	- 4 Search Devices and 🔎
File Edit View Tools Help	
Add a device Add a printer	E • 0
Devices (5)	·
Flash Disk JERRYDESKTOP-P NEC LCD93VX Sceptre X24WG USB Receiver	
Printers and Faxes (10)	
Brother MFC-7820N USB Printer CutePDF Writer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother Printer Brother B	Jor Nitro PDF Creator Printers 843 Network Printer 2010 Send To OneNote 2010
16 items	

Fig. 2.1.2 Click on Add a printer

Click on the Add a local printer selection



Fig. 2.1.3 Add a local printer

Click on the Use existing port selection, then drop down the scroll down printer port list to the right of the selection until you find USBxxx (Virtual printer port for USB). There may be several USB virtual printer ports, typically the highest numbered one is the last device that was plugged in to a USB Port. After selecting a USB port click the **[Next]** button.

🚱 🖶 Add Printer	
Choose a printer port A printer port is a type of conn	nection that allows your computer to exchange information with a printer.
Output: Output:	USB002 (Virtual printer port for USB)
Create a new port:	
Type of port:	CutePDF Writer Monitor
	<u>N</u> ext Cancel

Fig. 2.1.4

The next step is to select the location of the printer driver to be installed.

🚱 🖶 Add Printer	3 Warrior Con
Install the printer driver Choose your printer from the list. Clic To install the driver from an installatio	k Windows Update to see more models. on CD, click Have Disk.
Manufacturer Brother Canon Epson Fuji Xerox Canon Epson Fuji Xerox Canon Epson Fuji Xerox Canon End End Epson Fuji Xerox Canon End End End End End End End En	s ther DCP-116C ther DCP-117C ther DCP-128C ther DCP-128C ther DCP-129C Windows Update Have Disk
	Next Cancel

Fig. 2.1.5 Click [Have Disk]

The list on the left side of the window are printer manufacturers that Microsoft supports or that have previously been installed on the computer. Check the list to see if the manufacturer is in the list. If it is not in the list, click on [Have Disk ...].

J	Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.	ОК
		Cancel
	Copy manufacturer's files from:	
	A:\	Browse

Fig. 2.1.6 Installation disk

Click on the [Browse ...] button to locate the drivers for the printer. The Warrior Installation CD contains drivers for the plotters that Scientific Data Systems has supplied.



Fig. 2.1.7 Warrior CD

Click the Look in: drop down list in the Locate File window to find the Warrior Installation CD in the computer CD / DVD Drive and double click on it.

Look in: 👚 DVD RW Drive (D:) SCH 111116	- 🕝 🤌 🛤 🛄 -		
Name	Date modified	Type	Si
Files Currently on the Disc (16)			
ASPI Drivers For DAT Tapes	11/16/2011 8:48 AM	File folder	
📕 Brochure	11/16/2011 8:48 AM	File folder	
📙 Cable to Go USB to Serial Adapter Drivers	11/16/2011 8:48 AM	File folder	
JDOC	11/16/2011 8:48 AM	File folder	
Jo Modifications	11/16/2011 8:48 AM	File folder	
PdfFiles	11/16/2011 8:48 AM	File folder	
DROG	11/16/2011 8:48 AM	File folder	
RESOURCE	11/16/2011 8:49 AM	File folder	
퉬 Vendor Manuals	11/16/2011 8:49 AM	File folder	
🍌 Videos	11/16/2011 8:49 AM	File folder	
腸 Warrior Device Drivers	11/16/2011 8:49 AM	File folder	
🐌 Warrior Engineering Bulletins	11/16/2011 8:49 AM	File folder	
腸 Warrior Manuals	11/16/2011 8:49 AM	File folder	
Warrior Software v7.0	11/16/2011 8:49 AM	File folder	
Windows Printer Drivers	11/16/2011 8:49 AM	File folder	
autorun.inf	10/10/2008 2:30 PM	Setup Inform	ation
•			•
File name: Autorun.inf		+	Open
Files of type: Setup Information (*.inf)		-	Cancel



On the Warrior CD, locate the Windows Printer Drivers folder and double click on it.

	the supervised statement of the second statement of the	and the second		×
Look in: 🔒	Windows Printer Drivers	- 🕝 🤌 🗈 🖬 -		
Name	*	Date modified	Туре	Size
Files Curre	ntly on the Disc (6)			
BELKIN	USB PRINTER CABLE	11/16/2011 8:49 AM	File folder	
📕 Gulton 2	275	11/16/2011 8:49 AM	File folder	
🍌 iTerraLit	te XP,2000 Ver1,0,0,3	11/16/2011 8:49 AM	File folder	
Printrex		11/16/2011 8:49 AM	File folder	
📗 Veritas		11/16/2011 8:49 AM	File folder	
Narrior	Tiff Driver	11/16/2011 8:49 AM	File folder	
۲ [.III		,
∢ File <u>n</u> ame:	Autorun.inf	.111	-	Open

Fig. 2.1.9

Select the plotter manufacturer and double click on that folder.

Locate File	the subscription of the local division of the	-	-		x
Look in: 🌗	Printrex	•	G 🤌 🕫 🛄		
Name	^		Date modified	Туре	Size
Files Currer	ntly on the Disc (3)				
🍌 amd64			11/16/2011 8:49 AM	File folder	
i 386			11/16/2011 8:49 AM	File folder	
			<i>3) 2) 2000 3</i> 2 4 1 111		
•					Þ
File <u>n</u> ame:	Autorun.inf			▼ Ope	n
Files of type:	Setup Information (*.inf)			- Cano	el

Fig 2.1.10

When the proper .inf, or setup information file has been located, click the file and then click on the [Open] Button.



Fig 2.1.11

This should return you to the Install from Disk window with the manufacturers files selected. Click the [OK] button to continue.

	nter driver		
Choose	your printer from the list. Click Wind	ows Update to see more mo	dels.
To inst	all the driver from an installation CD, c	lick Have Disk.	
Printers			
Printrex 840D	L		
Driptrey 9400	L (201 Y DPI)		
Printiex 0400	1. ACT		
Printrex 8400	L/G		
Printrex 8400	L/G		
Printrex 840	as an Authenticode(tm) signature.	Windows Update	Have Disk

Fig. 2.1.12 Selecting printer

You should now have a drop down list of the manufacturers printers. Scroll down the list to find the model of the printer that in being installed and click [Next].

🚱 🖶 Add Printer				
Type a printer name				
This printer will be installed v	vith the Printrex 840DL	/G driver.		
e			Next	Cancel

Fig. 2.1.13

Either enter a new printer name or accept the printer name Windows has assigned by clicking the [Next] button.

Printer Sharing				
If you want to share thi type a new one. The sh	s printer, you m are name will b	ust provide a sha e visible to other r	re name. You can network users.	use the suggested name or
O not share this prive	nter			
Share this printer so	that others on y	your network can	find and use it	
Share name: [
Location:				
Comment: [

Fig. 2.1.14

Warrior will not print through a shared printer (Warrior does print through network printers) so select the Do not share this printer option and then click [Next].

🕞 🖶 Add Printer	
You've successfully added Printrex 840DL/G	
Set as the default printer	
To check if your printer is working properly, or to see troubleshoo test page. Print a test page	ting information for the printer, print a
	Finish Cancel

Fig. 2.1.15 Finish printer installation

If this is the only printer to be used on the computer, click the Set as the default printer check box. If no other printers are attached to the computer click the Set as Default printer selection.

2.2 Warrior Printer Installation

To begin the installation of Warrior printers go to the Warrior Control panel. Next, Click on the "Plot" tab. In the Plotting section on the left side of the Control Panel, click the [Printer Setup] button.

Warrior Control Panel	Warrior Control Panel
General Acquisition Hot Keys/Shortcuts Licenses Depth/Tension	General Acquisition Plot Hot Keys/Shortcuts Licenses Depth/Tension
Show depth as Freet Meters Show data units as Show data units as Show data units as C English Edit C User defined	Setup Gridline setup Options
Use language	Monitor USB port while printing - if timeout then ask to try other ports.
English (United States)	Wait this long on USB printing to see if print job 10 10
Warrior data directory	Cenpoll ONLY - Check printer status for paper, selected, or error. Uncheck this if you cannot print.
C:\ProgramData\Warrior\Data\	Default heading
Store realtime backups to	stdopen.hdg Browse
F:\Browse	
• No realtime backups	Service company
C Offer to make copy after each pass	Scientific Data Systems, Inc.
C Automatically make copy after each pass	
Version Warrior Logging System version 12.4.28001. Warrior Database API (P10V0 unicode) - 2012.4.27.1	
OK Cancel	OK Cancel

FIG: 2.2.1 Control Panel Printer Setup

To install a printer to be used while logging, click the [Install] button on the lower portion of the left side of the window.

Installed Printers	
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer
Name of this printer as seen by Windows printing, Required if not printing to file.	Windows printing options for above printer Have printer do orientation Origin for printing Grap to attact of print (inches)
Port	Windows page length is > 15"
Driver	Darkness for horizontal grid lines 1 🚊 Darkness for vertical grid lines 1 🚊 Left margin (inches)
	Right margin (inches) Source resolution (smaller = faster print) Find This Printer on LISB port
Install Remove Config	Show network printers in hardcopy Windows printer list
te: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 2.2.2 Installed Printers

Printer	
	-
	K
	1
InstallUancel	

FIG: 2.2.3 Install Printer

Open the Drop- down list and scroll down until the appropriate printer is found. Be sure to select the correct model as some of the models have similar names.

🙀 Install Printer	×
Printer	
	-
PDF File	
TIFF File	
Veritas	
VeritasE	
Printrex	▼

FIG: 2.2.4 Install Printer – Printer selection

In this instance, Printrex has been selected to install the Printrex 840 DL/G Printer. Click the [Install] button to continue

🔛 Install Printer		×
Printer Printrex		•
	Cancel	

FIG: 2.2.5 Install Printer

The different plotters will have configuration settings that should be entered now. Normally the defaults will be an acceptable place to start. For fan fold printing, set the printer page size (Height) to twice the size of one fan fold page. Select [Save] to continue

Printrex 820 Plotte	r Configuration	×
Media	Paper	
Paper speed	Full	•
Film speed	Half	•
Sensitivity	Low	•
Width	8.375	
Height	12.5	
	Top of Form	
Top margin (inches)	0.1	
TOF marker offset (in	ches) 0.625	
TOF marker thickness (inches) 0.25		
Save	Close	

FIG: 2.2.6 Printrex 820/840 Plotter Configuration

In the drop down list for the Name of this printer as seen by Windows printing, select the appropriate Windows printer.

Installed Printers	
Direct to Printer	Windows Printing
Printer Names Warrior printer name	Enable printing through Windows printer
Printrex C Default Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer
Properties Properties	Gap to start of print (inches)
Port	Windows page length is > 15" Length for headings, pictures, etc. (inches)
Driver port32 Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines 1 Darkness for vertical grid lines 1
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
ote: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 2.2.7 Installed Printers

The Port Name should automatically be filled with the proper port and the driver will normally be Port32. Click the Default check box to the right of the Warrior printer name to has this be the default Warrior printer. Click on [Save Changes] in the lower right of the window to save the printer setup.

Installed Printers	
Direct to Printer	Windows Printing
Printer Names	Enable printing through Windows printer
Warrior printer name	· · · · · · · · · · · · · · · · · · ·
Printrex C Default Name of this printer as seen by Windows printing. Required if not printing to file.	Windows printing options for above printer
Printrex 840DL/G Properties	Gap to start of print (inches)
Port	Windows page length is > 15"
Name USB001	Length for headings, pictures, etc. (inches)
Driver port32 Use with standard printer ports & SDS Buffered Plotter Cards & USB parallel ports	Darkness for horizontal grid lines 1 Darkness for vertical grid lines 1
	Find This Printer on USB port
Install Remove Config	Show network printers in hardcopy Windows printer list
ote: To print while logging you must print to one of the Direct printers	Printing Help Save Changes Close

FIG: 2.2.8 Installed Printers

There are two different methods that Warrior uses to print. If you want a hardcopy of your log while you are logging, then you must print to a Direct printer. For good quality color prints, or to print to a printer that is not in the list of Direct printers, select the option Enable printing through Windows printer. When this box is checked, either a (Direct) or (Windows) label for each available printer is shown when printing from Warrior.

If you click on the [Printing Help] button, there is additional information about color printers. If you click on the Supported Window Printers, there will be a list of printers.





By clicking on a printer in the list, you can see the recommended setting for that printer.



Fig. 2.2.10

2.3 Printing to PDF and TIF

Warrior supports direct printing to PDF files through its own driver. To setup PDF and TIF printers go to the Warrior Control Panel and select [Printer Setup]. Click on the [Install] button on the lower left of the window. Scroll down the list of printers until PDF File or TIFF File is found and select the appropriate item. Click on [Install] to continue and bring up the configuration window for that selection.

🔳 In:	stall Printer	x
Print	ter	
Eps Eps Ima	son 3000 son 1520 son 900 F File age File	

Fig. 2.3.1 Install PDF file printing

2.3.1 Printing to PDF

Before creating a PDF output, determine what the customer intends to do with the file and configure the PDF options accordingly. If it is intended only to view the PDF on the screen, then the PDF configuration should be set to Continuous Viewable Image and Color. If the customer intends to print the PDF, then it should be set to Continuous Printable Image and Color or Monochrome, depending on the printer being used. In addition, it may be important to set the page size to match the page size of the customer's printer; otherwise gaps between pages can appear.

Furthermore, there is a trade off between file size and quality. The higher the dpi setting, the better the quality normally, but the file size is larger. Some experimentation may be required with the customer to produce optimal results. This is also true for the selected compression mode. For most situations, FLATE compression works well.

2.3.2 Printing to TIFF

Again, determine what the file is intended for and configure the driver accordingly. Note that the driver supports TIFF single continuous pages of longer than 90 inches. However, many TIFF applications (including Warrior fax) do not support this, so before increasing the maximum page length, be sure that the customer can read such files.